IN THE CLAIMS:

Claim 1 (original): Sputtering cathode, in particular according to the magnetron principle, substantially comprised of a basic cathode body (1) with cooling arrangement (2), cooling contact body (3) disposed between the cooling arrangement (2) and a target (4) such that it is heat conducting, **characterized in that** the contact face between cooling contact body (3) and the target (4) is provided with a friction-reducing layer (5).

Claim 2 (original): Sputtering cathode as claimed in claim 1, **characterized in that** the friction-reducing layer (5) is formed of a refractory metal or refractory metal-containing alloy.

Claim 3 (previously presented): Sputtering cathode as claimed in claim 1, characterized in that the friction-reducing layer (5) is formed of Cr, Mo, Ta, NB, W or allows thereof.

Claim 4 (previously presented): Sputtering cathode as claimed in claim 1, characterized in that the friction-reducing layer is developed as a hard material layer of carbides, nitrides or carbonitrides of metals of group 4a, 5a or 6a.

Claim 5 (previously presented): Sputtering cathode as claimed in claim 1, characterized in that the friction-reducing layer is developed as an amorphous diamond-like carbon layer, in particular as a pure DLC layer or metal-containing DLC layer.

Claim 6 (previously presented): Sputtering cathode as claimed in claim 1, characterized in that the thickness of the friction-reducing layer (5) is 0.1 to 5 μ m, preferably 0.5 to 2.5 μ m.

Claim 7 (previously presented): Sputtering cathode as claimed in claim 1, characterized in that the friction-reducing layer (5) is applied on the backside of the target (4).

Claim 8 (previously presented): Sputtering cathode as claimed in claim 1, characterized in that the friction-reducing layer (5) is applied on the cooling contact body (3).

Claim 9 (withdrawn): Method for the production of sputtering cathodes comprised substantially of a basic cathode body (1), a cooling contact body (3) and a target (4), **characterized in that** the contact face between cooling contact body (3) and target (4) is provided with a friction-reducing layer (5).

Claim 10 (withdrawn): Method as claimed in claim 9, **characterized in that** for the friction-reducing layer (5) refractory metal or a refractory metal-containing alloy is utilized.

Claim 11 (withdrawn): Method as claimed in claim 10, characterized in that for the friction-reducing layer (5) Cr, Mo, Ta, Nb, W or alloys thereof are utilized.

Claim 12 (withdrawn): Method as claimed in claim 9, characterized in that the layer (5) is applied by means of a PVD method, preferably by magnetron sputtering.

Claim 13 (withdrawn): Method as claimed in claim 9, **characterized in that** for the friction-reducing layer carbides, nitrides or carbonitrides of the metals of group 4a, 5a or 6a are employed.

Claim 14 (withdrawn): Method as claimed in claim 9, **characterized in that** for the friction-reducing layer amorphous diamond-like carbon layers are selected, in particular pure or metal-containing DLC layers.

Claim 15 (withdrawn): Method as claimed in claim 13, **characterized in that** as the coating methods are employed magnetron sputtering, reactive magnetron sputtering, cathodic arc vaporization, vapor deposition, reactive vapor deposition as well as plasma-enhanced CVD.

Claim 16 (withdrawn): Method as claimed in claim 9, characterized in that before the application of the friction-reducing layer (5) a plasma-enhanced pretreatment step, preferably a plasma etching step, of the target backside is carried out.

Claim 17 (withdrawn): Target for a sputtering cathode with cooling arrangement (2) and cooling contact body (3), **characterized in that** the target backside facing the cooling contact body (3) is provided with a friction-reducing layer (5).

Claim 18 (withdrawn): Target as claimed in claim 17, **characterized in that** the friction-reducing layer (5) is comprised of refractory metal or a refractory metal-containing alloy.

Claim 19 (withdrawn): Target as claimed in claim 18, **characterized in that** the friction-reducing layer (5) is formed of Cr, Mo, Ta, NB, W or alloys thereof.

Claim 20 (withdrawn): Target as claimed in claim 17, **characterized in that** the friction-reducing layer is comprised of carbides, nitrides or carbonitrides of the metals of group 4a, 5a or 6a.

Claim 21 (withdrawn): Target as claimed in claim 17, **characterized in that** the friction-reducing layer is comprised of amorphous diamond-like carbon layers, in particular pure or metal-containing DLC layers.

Claim 22 (withdrawn): Vacuum coating installation for plasma applications, comprising substantially a vacuum receptacle to accommodate the substrate, means for evacuating the receptacle as well as one or several sputtering cathode(s) according to claim 1.